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DATE: June 22, 2004

PTO IDENTIFIER: Application Number 10/791,732-Conf. #5305  
Patent Number

Inventor: Nicola Bresciani et al.

MESSAGE TO: US Patent and Trademark Office

FAX NUMBER: (703) 872-9306

FROM: CONNOLLY BOVE LODGE &amp; HUTZ LLP

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Attorney Dkt. #: 22106-00054-US

PAGES (Including Cover Sheet): 9

## CONTENTS:

Information Disclosure Statement (2 pages);  
IDS Form PTO/SB/08 (1 page);  
European Search Report including Modified Abstract of Disclosure (4 pages);  
Certificate of Transmission Under 37 CFR 1.8 (1 page)  
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PTO/SB/97 (12-97)

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Information Disclosure Statement (2 pages);

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European Search Report including Modified Abstract of Disclosure (4 pages)

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Docket No.: 22106-00054-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**RECEIVED**  
**CENTRAL FAX CENTER**

**JUN 23 2004**

In re Patent Application of:  
Nicola Bresciani et al.

Application No.: 10/791,732

Confirmation No.: 5305

Filed: March 4, 2004

Art Unit: 2832

For: A LOW-VOLTAGE CIRCUIT  
BREAKER AND CORRESPONDING  
POSITIVE-OPENING-OPERATION DEVICE

Examiner: Not Yet Assigned

**OFFICIAL**

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

A copy of each reference on the PTO/SB/08 is not attached. The IDS is being submitted to ensure that all references cited in the European Search Report appear on the face of the issued patent.

Application No.: 10/791,732

Docket No.: 22106-00054-US

A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

A copy of the modified Abstract of Disclosure received from the European Patent Office has also been submitted under separate cover for filing in the above-identified patent application.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 22106-00054-US. A duplicate copy of this paper is enclosed.

Dated: June 22, 2004  
20955\_1

Respectfully submitted,

By Myron Keith Wyche  
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PTO/SB/08a/b (08-03)

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Substitute for form 1449/AB/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	10/791,732-Conf. #5305	
			Filing Date	March 4, 2004	
			First Named Inventor	Nicola Bresciani	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	1	Attorney Docket Number	22106-00054-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA**	US-6,260,533	11-09-1993	Livesey, John K. et al.	
	AB**	US-6,260,918	10-05-1993	Edds, Thomas A. et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature 21052_1	Date Considered
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Datum/Date

14.06.04

Zeichen/Ref./Pat. ABB00301-EP	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 04075646.2-2214-
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire ABB Service S.r.l	

## COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☐ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☒ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 1

## REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507.0 (03.95)



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 04 07 5646

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 260 533 A (STAY AMELIA M ET AL) 9 November 1993 (1993-11-09) * column 7, lines 45-60; figures 2,3,23 * * column 15, line 53 - column 16, line 12 *	1-13	H01H71/50 H01H71/52
X	US 5 250 918 A (EDDS THOMAS A ET AL) 5 October 1993 (1993-10-05) * column 8, lines 36-54; figure 1 *	1,12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01H
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 26 May 2004	Examiner Simonini, S
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date O : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

1  
EPO FORM 1503 (3.12.2001)

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 04 07 5646

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-05-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5260533	A	09-11-1993	AU 662565 B2	07-09-1995
			AU 2711992 A	22-04-1993
US 5250918	A	05-10-1993	AU 4034693 A	29-11-1993
			CA 2111960 A1	11-11-1993
			DE 69307671 D1	06-03-1997
			DE 69307671 T2	11-09-1997
			EP 0603346 A1	29-06-1994
			JP 6511597 T	22-12-1994
			WO 9322786 A1	11-11-1993

EPO FORM P/049

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82





## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

04075646.2

Described herein is a low-voltage circuit-breaker, which comprises at least one mobile contact (10) and a corresponding fixed contact, and a positive-opening-operation device. The positive-opening-operation device in turn comprises: a moving element (40) associated to the mobile contact; a first kinematic chain (50), operatively associated to said mobile contact and to an actuating device; and a second kinematic chain (60), associated to said moving element and to said first kinematic chain. A first lever (51) is associated to the first kinematic chain and a second lever (61) is associated to the second kinematic chain, said first and second levers interacting with one another during the opening operation and being equipped with blocking devices (70) in the event of welding of the contacts together.